

I CLAIM:

1. A closed cyclone system having a distributor (9), wherein the interconnection between the cyclones of different and consecutive stages comprises the connecting pipe (8), the telescopic joint (7) and the distributor (9) that uniformly distributes the gases from the majority of the first stage cyclones (3) towards the second stage cyclones (6).
2. A system according to claim 1, wherein the distributor (9) uniformly distributes the gases from all the first stage cyclones (3) towards the second stage cyclones (6).
3. A system according to claim 1, wherein the first stage cyclones (3) are directly connected to the reaction zone (1).
4. A system according to claim 1, wherein the distributor (9) is connected to one single first stage cyclone (3) no matter the number of second stage cyclones (6).
5. A system according to claim 1, wherein the distributor (9) is connected to more than one first stage cyclone (3) no matter the number of second stage cyclones (6).
6. A system according to claim 1, wherein the number of distributors (9) connected to the first stage cyclones (3) may be higher than one, no matter the number of second stage cyclones (6).
7. A system according to claims 1, 2, 3, 4, 5 and 6, wherein said system is mounted within a disengager vessel (2) of a fluid catalytic cracking unit (FCC).
8. A system according to claims 1, 2, 3, 4, 5 and 6, wherein said system is mounted within a regenerator vessel (2) of a fluid catalytic cracking unit (FCC).
9. A system according to claims 1, 2, 3, 4, 5, 6, 7 and 8, wherein the reaction zone (1) of the fluid catalytic cracking unit (FCC) is of upward flow (riser).
10. A system according to claims 1, 2, 3, 4, 5, 6, 7 and 8, wherein the reaction zone (1) of the fluid catalytic cracking unit (FCC) is of downward flow (downer).

11. A system according to claims 1, 2, 3, 4, 5, 6 and 7, wherein the distributor (9) is manufactured from the same material as that employed to make the cyclones.

5 12. A system according to claims 1, 2, 3, 4, 5, 6 and 7, wherein the distributor (9) is manufactured from a different material from that employed to make the cyclones.

empA 13. A system according to claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12, wherein said system is designed for use in fluid catalytic cracking units (FCC).

10 14. A system according to claim 13, wherein the flow rate of fluids conveyed through the annular space of the telescopic joint (7) represents of from 0.1 to 7% by weight of the total flow rate of gases, more preferably 5 weight % of the total flow rate of gases.

15. Use of closed cyclone systems according to claim 1, having distributors (9) for equalization of flow rate.

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